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(71)Applicant : SONY INTERNATL EUROP GMBH

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(72)Inventor : BOEHNKE RALF  
DOELLE THOMAS  
KONSCHAK TINO

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## (54) STRUCTURE OF PREAMBLE

(57)Abstract:

PROBLEM TO BE SOLVED: To optimize the time domain signal characteristic of an A field.

SOLUTION: The time domain signal of an A field of a preamble for synchronization in an OFDM (orthogonal frequency division multiplexing) transmitting system is generated by performing inverse fast Fourier transform of a frequency domain string SA composed of twelve complex symbols mapped by inverse fast Fourier transform of 64 points based on a mapping rule  $S-26, 26 = \sqrt{2} \cdot (0, 0, 0, 0, S1, 0, 0, 0, S2, 0, 0, 0, S3, 0, 0, 0, S4, 0, 0, 0, S5, 0, 0, 0, S6, 0, 0, 0, S7, 0, 0, 0, S8, 0, 0, 0, S9, 0, 0, 0, S10, 0, 0, 0, S11, 0, 0, 0, S12, 0, 0, 0, 0)$ . The frequency domain string SA of the A field is represented by, for instance,  $S1, \dots, S12 = +A, +A, +A, +A, +A, -A, -A, +A, +A, -A, +A, -A$  or  $S1, \dots, S12 = -A, +A, -A, +A, +A, -A, -A, +A, +A, +A, +A, +A$ .

## LEGAL STATUS

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